



## Mini VRF Hyper-INVERTER KX Multi System

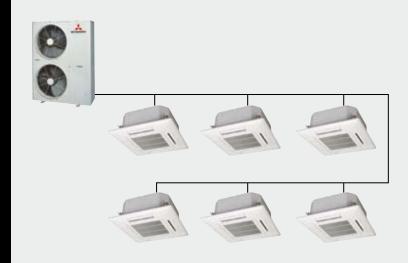
FDCA140

Mitsubishi Heavy Industries VRF FDCA140 systems are high specification, variable capacity cooling/heat pump, for small applications where individual room control is required. Up to 8 indoor units can be connected to one outdoor unit

FDCA140 VRF Hyper-INVERTER

Power supply 1 phase

Nominal Cooling: 14.6kW Nominal Heating: 16.6kW



Air conditioners and heat pumps for commercial and residential applications



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Mitsubishi RCE1 Controllers include all the basic user requirements – temperature setting, fan speed selection, mode and timer settings – including 24-hour/7-day programmer.

Check functions include service and operational data, fault diagnosis, and operational history.

The FDCA140 mini-VRF system consists of a compact outdoor unit, connected to a selection of up to eight indoor units, allowing each to have individual control.

The system operates either on cooling or heating.

Each indoor unit includes capacity control valves, which constantly adjust to provide energy efficient performance, with stable and comfortable temperature conditions.

- Single Phase electrical power supply
- 70m max from outdoor unit to furthest indoor unit
- Pre-charged with refrigerant for 100m total pipe length
- Superior Controls Specification
- DC INVERTER Compressor
- High Performance: C.O.P. up to 3.73
- 12 indoor unit types 61 different models
- Slim profile outdoor unit





### Mini VRF Hyper-INVERTER KX Multi System

FDC A140

#### **Key Features**

- Compact outdoor unit
- Extensive indoor unit range 61 models– see table below
- System operates for cooling or heating
- Small diameter system piping with branch or header connections
- Fully charged with refrigerant no need to add refrigerant on site
- Simple control wiring 2-core non-polar 'Superlynk' network
- Central Controller options available including advanced BMS interface
- Single phase power supply with low start current – 5A
- Low ambient operation down to -15°C in heating mode.
- Indoor unit connection capacity:
   150% for up to 6 indoor units
   130% for up to 8 indoor units
- System design using the Mitsubishi "e-solution" programme

#### **FDCA Inverter Outdoor Unit**

Nominal Cooling: 14.6kW Nominal Heating: 16.6kW

Capacity Index: 112 to 210 for 2 to 6 units 112 to 182 for 2 to 8 units

C.O.P. (Heating) 3.73 EER (Cooling) 3.48

Dimensions mm H x W x D 1300 x 970 x 370

Weight125kgPower Supply Rating MCB32ATotal pipe length100mPipe length max to furthest unit70mPipe length max to first branch50m

Max height from outdoor unit to

indoor units 30m (outdoor unit above) 15m (outdoor unit below)

Please refer to Manufacturer's Engineering Data for installation and technical information.

| FDCA140 - KX4 Indoor Units   |     |          |          |     |          |          |      |      |          |
|------------------------------|-----|----------|----------|-----|----------|----------|------|------|----------|
| Cooling kW                   | 2.2 | 2.8      | 3.6      | 4.5 | 5.6      | 7.1      | 9.0  | 11.2 | 14.0     |
| Heating kW                   | 2.5 | 3.2      | 4.0      | 5.0 | 6.3      | 8.0      | 10.0 | 12.5 | 16.0     |
| Model ref:                   | 22  | 28       | 36       | 45  | 56       | 71       | 90   | 112  | 140      |
| FDTA Ceiling Cassette        |     | ✓        | <b>✓</b> | ✓   | ✓        | ✓        | ✓    | ✓    | 1        |
| FDTCA Compact Cassette       | ✓   | <b>✓</b> | ✓        | ✓   | <b>✓</b> |          |      |      |          |
| FDKA Wall mounted            | ✓   | ✓        | ✓        | ✓   | ✓        | ✓        |      |      |          |
| FDEA Ceiling suspended       |     |          | ✓        | ✓   | ✓        | ✓        |      | ✓    | <b>✓</b> |
| FDTQA 1-way Compact Cassette | ✓   | ✓        | ✓        |     |          |          |      |      |          |
| FDTSA 1-way Ceiling Cassette | ✓   | <b>✓</b> | ✓        | ✓   |          | ✓        |      |      |          |
| FDTWA 2-way Ceiling Cassette |     | <b>✓</b> |          | ✓   | ✓        | ✓        | ✓    | ✓    | <b>✓</b> |
| NEW FDUMA Ducted             | ✓   | <b>✓</b> | ✓        | ✓   | <b>✓</b> | ✓        | ✓    | ✓    | ✓        |
| NEW FDQSA Compact Ducted     | ✓   | ✓        | ✓        | ✓   | <b>✓</b> |          |      |      |          |
| FDFLA Floor                  |     | <b>✓</b> |          | ✓   |          | <b>✓</b> |      |      |          |
| FDFUA Floor Concealed        |     | <b>✓</b> |          | ✓   | <b>✓</b> | ✓        |      |      |          |

<sup>\*</sup>Cooling Nom: 27°Cdb/19°Cwb, Amb: 35°C UK Cooling: I/d: 23°Cdb/16°Cwb, Amb: 30°C \*Heating: I/d: 20°Cdb, Amb: 7°Cdb/6°Cwb

# Options and Controls



SAF Heat Recovery ventilation units



Touch Screen Central
Control for up to 144
indoor units



BMS Interface for LON



Centre Console SLA2AI for up to 48 units



